Rabbit Anti-Mouse FVII protein Monoclonal Antibody

Cat. No. CAB11538RM **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Mouse FVII protein
Species	Mouse
Source	Rabbit
Antigen Description	Mouse coagulation factor VII, also known as Serum prothrombin conversion accelerator, Factor VII, F7 and FVII, is a member of the peptidase S1 family. Factor VII is one of the central proteins in the coagulation cascade. It is an enzyme of the serine protease class. Factor VII contains two EGF-like domains, one Gla (gamma-carboxy-glutamate) domain and one peptidase S1 domain. The main role of factor VII is to initiate the process of coagulation in conjunction with tissue factor (TF). Tissue factor is found on the outside of blood vessels, normally not exposed to the blood stream. The action of the Factor VII is impeded by tissue factor pathway inhibitor (TFPI), which is released almost immediately after initiation of coagulation. Factor VII is vitamin K dependent and is produced in the liver. The use of warfarin or similar anticoagulants impairs its function. Upon vessel injury, tissue factor is exposed to the blood and circulating Factor VII. Once bound to TF, FVII is activated to FVIIa by different proteases, among which are thrombin (factor IIa), factor Xa, IXa, XIIa, and the FVIIa-TF complex itself. The most important substrates for FVIIa-TF are Factor X and Factor IX.
Specificity	Mouse FVII / Factor VII / F7. No cross-reactivity in WB and ELISA with Human F10 / FX / Factor X, Human F11 / FXI / Factor XI, Human Kallikrein-1 / KLK-1, Human

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	Kallikrein-13 / KLK-13, Human Kallikrein-11 / KLK-11, Human Kallikrein-7 / KLK-7, Human cell lysate (293 cell line)
Immunogen	Recombinant mouse FVII protein
Isotype	Rabbit IgG
Clone	A122
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1 - 2 μg/mL with the appropriate secondary reagents to detect mouse FVII in WB. Using a DAB detection system, the detection limit for mouse FVII is approximately 0.125 ng/lane under non-reducing conditions and reducing conditionsELISA: This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect mouse FVII. The detection limit for mouse FVII is approximately 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant mouse FVII
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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Gene Name	F7 coagulation factor VII [Mus musculus]
Official Symbol	F7
Synonyms	F7; coagulation factor VII; serum prothrombin conversion accelerator; Cf7; FVII; mfVII; AI132620;
Gene ID	14068
mRNA Refseq	NM_010172
Protein Refseq	NP_034302
Pathway	Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Gamma-carboxylation of protein precursors, organism-specific biosystem;
Function	calcium ion binding; catalytic activity; endopeptidase activity; glycoprotein binding; hydrolase activity; peptidase activity; receptor binding; serine-type endopeptidase activity; serine-type peptidase activity;

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